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NOTICE OF ALLOWANCE AND FEE(S) DUE

70813

7590

07/29/2008

GOODWIN PROCTER LLP 901 NEW YORK AVENUE, N.W. WASHINGTON, DC 20001 EXAMINER

SCHLIENTZ, NATHAN W

ART UNIT PAPER NUMBER

1616

DATE MAILED: 07/29/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811.998	03/30/2004	Ruev J. Yu	BMR-001/C2	2680

TITLE OF INVENTION: OLIGOSACCHARIDE ALDONIC ACIDS AND THEIR TOPICAL USE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	10/29/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

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70813	7590 07/29	/2008	have	e its own certificate of	f mailing or transmission.	nt of formal drawing, must
GOODWIN PR	ROCTER LLP K AVENUE, N.W.	2000	I he State addr trans	reby certify that this es Postal Service with ressed to the Mail S	icate of Mailing or Trans Fee(s) Transmittal is being h sufficient postage for firs top ISSUE FEE address O (571) 273-2885, on the d	g deposited with the United st class mail in an envelope above, or being facsimile
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	Α	TTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,998	03/30/2004		Ruey J. Yu		BMR-001/C2	2680
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nonprovisional	YES	\$720	\$300	\$0	\$1020	10/29/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	J		
SCHLIENTZ,	NATHAN W	1616	424-401000			
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED C			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is identi h in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	data will appear on the part a substitute for filing and (B) RESIDENCE: (CITY	atent. If an assignee assignment. and STATE OR CO	UNTRY)	ocument has been filed for
Please check the appropri	rate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Corp	oration or other private gro	oup entity Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 			
**	s SMALL ENTITY statu	is. See 37 CFR 1.27.	==	<u> </u>	ENTITY status. See 37 Cl	
NOTE: The Issue Fee and interest as shown by the i	a Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	a trom anyone other than the Office.	he applicant; a registe	ered attorney or agent; or th	ne assignee or other party in
Authorized Signature			Date			
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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70813 75	90 07/29/2008		EXAM	INER	
GOODWIN PRO	CTER LLP	SCHLIENTZ, NATHAN W			
901 NEW YORK AVENUE, N.W.			ART UNIT	PAPER NUMBER	
WASHINGTON, I	OC 20001		1616		
			DATE MAILED: 07/29/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 518 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 518 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	 10/811,998	YU ET AL.
Notice of Allowability	Examiner	Art Unit
	Nathan W. Schlientz	1616
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. X This communication is responsive to an Amendment filed 2	20 May 2008.	
2. 🔀 The allowed claim(s) is/are <u>111,113-121,149,152,159-161</u>	<u>and 163-165</u> .	
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents 	been received. been received in Application No	
International Bureau (PCT Rule 17.2(a)).	cuments have been received in this	national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application. itted. Note the attached EXAMINER	'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or declara	tion is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus		
(a) ☐ including changes required by the Notice of Draftspers	- •	948) attached
1) hereto or 2) to Paper No./Mail Date		N
 (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1) 		
each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application
 Notice of References Cited (P10-692) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Summary	• •
3. ☐ Information Disclosure Statements (PTO/SB/08),	— Paper No./Mail Da 7. ⊠ Examiner's Amendr	te
Paper No./Mail Date4. ☐ Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9.	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with attorney Patrick A. Doody on 07 July 2008.

The application has been amended as follows:

- In the 5th line of claim 111, replace "salt, lactone, or cyclic" with --lactone--.
- In the 11th line of claim 114, delete "and related compounds".
- In the 12th line of claim 114, delete "and derivatives thereof".
- In the 12th line of claim 114, insert –and-- before the word N-acetylamino.
- In the 13th line of claim 114, delete "and related N-acetyl compounds".
- In the 2nd and 3rd lines of claim 120 insert --and-- before the word proteins, and delete "and related compounds".
- In the 5th line of claim 149, replace "salt, lactone, or cyclic" with --lactone--.
- In the 3rd line of claim 152, delete ", ionizing radiation, free radicals, or laser".
- In the 3rd line of claim 159, replace "lactone, or cyclic" with --or lactone--.
- In the 5th line of claim 160, replace "lactone, or cyclic" with --or lactone--.
- In the 2nd line of claim 161, replace "lactone, or cyclic" with --or lactone--.

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Art Unit: 1616

■ In the 2nd and 3rd lines of claim 163, replace "lactone, or cyclic" with --or lactone--.

- In the 2nd and 3rd lines of claim 165, delete ", ionizing radiation, free radicals, or laser".
- 2. The following is an examiner's statement of reasons for allowance: the instant claims are drawn to a composition comprising a therapeutically effective amount of at least one aldobionic acid selected from the group consisting of gentiobionic acid, isolactobionic acid, isomaltobionic acid, kojibionic acid, laminarabionic acid, nigerobionic acid, rutinobionic acid, and sophorobionic acid, as free acid, ester, or lactone forms thereof. Dutta et al. (US 4,137,397) teach the Erythromycin salt of aldobionic acids (i.e., Erythromycin aldobionate), which enhance the solubility and palatability of Erythromycin. However, Dutta et al. do not teach the free acid, ester, or lactone forms of gentiobionic acid, isolactobionic acid, isomaltobionic acid, kojibionic acid, laminarabionic acid, nigerobionic acid, rutinobionic acid, or sophorobionic acid, as instantly claimed. One of ordinary skill in the art would not have been motivated to isolate the free acid, ester, or lactone forms of aldobionic acids because Dutta et al. do not teach a utility for the aldobionic acids. The aldobionic acid salts with Erythromycin have the utility of enhancing the solubility and palatability of Erythromycin, but the aldobionic acids themselves are not taught by Dutta et al. to have any utility. Therefore, one of ordinary skill in the art would not have been motivated to isolate the free acid, ester, or lactone forms of aldobionic acids (In re Lalu and Foulletier, 223 USPQ 1257 (Fed. Cir. 1984)).

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan W. Schlientz whose telephone number is (571)272-9924. The examiner can normally be reached on 9:00 AM to 5:30 PM, Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann R. Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NWS

/Johann R. Richter/

Supervisory Patent Examiner, Art Unit 1616